



# DECUS

## PROGRAM LIBRARY

DECUS NO.	8-376B
TITLE	FIELD 1 SYMBOL TABLE STORAGE FOR PALD (DEC-D8-ASAC-LA)
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SOURCE LANGUAGE	PAL

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# FIELD 1 SYMBOL TABLE STORAGE FOR PALD (DEC-D8-ASAC-LA)

DECUS Program Library Write-up

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## ABSTRACT

This overlay is for the later version of PALD (DEC-D8-ASAC-LA). The operation of the updated version is identical to the original.

/USE WITH PALD---DEC-D8-ASAC-LA

/

/8K OVERLAY FOR PALD

/EXTERNAL SYMBOL TABLE STORED IN FIELD 1

/FROM PAGE 1 TO PAGE 20

M1=133

P7400=156

P7600=145

C200=112

BLKPTR=5327

BLKTAB=5330

LNKPTR=5331

SNUM=5332

SDECOD=5200

ERR1=77

P12=153

BUFTOP=5333

SADR=23

VADR=22

P37=142

P1740=5334

P3=151

/

/

/

/

/

\*6200

6200

5205

CDSVRV,

JMP .+5

/JUMP .SYM SEARCH

/

/REPLACE PALD CODING WITH THE FOLLOWING

/



5221	1727	*5221	TAD I BLKPTR	/RECORD PREVIOUS BLOCK
5222	3331	SVIRTL,	DCA LNKPTR	
5223	1332		TAD SNUM	
5224	1156		TAD P7400	
5225	0334		AND P1740	
5226	7112		CLL RTR	
5227	7012		RTR	
5230	7010		RAR	
5231	1330		TAD BLKTAB	
5232	3327		DCA BLKPTR	
/				
5233	1332		TAD SNUM	
5234	0142		AND P37	
5235	7001		IAC	
5236	7106		CLL RTL	
5237	7041		CIA	
5240	7001		IAC	
5241	1333		TAD BUFTOP	
5242	3023		DCA SADR	
5243	1023		TAD SADR	
5244	1151		TAD P3	
5245	3022		DCA VADR	
/				
5246	1727		TAD I BLKPTR	/IS NEXT BLOCK ZERO?
5247	7650		SNA CLA	
5250	5261		JMP SERROR	/YES, EXCEEDS SYMBOL TABLE
5251	1727		TAD I BLKPTR	/IS BLOCK SAME AS LAST?
5252	7041		CIA	
5253	1331		TAD LNKPTR	/PREVIOUS BLOCK
5254	7650		SNA CLA	
5255	5600		JMP I SDECOD	/YES
5256	1727		TAD I BLKPTR	/NO, READ IN BLOCK
5257	4264		JMS SREAD	
5260	5600		JMP I SDECOD	/NOW RETURN
/				
5261	1153	SERROR,	TAD P12	
5262	4477		JMS I ERR1	
5263	5545		JMP I P7600	
/				
/TO READ OR WRITE 200 WORDS FROM FIELD 1				
/BLOCK (IN FIELD 1) TO BE READ MUST BE IN AC				
/IF SNUM IS ZERO, WRITE				
/				
5264	0000	SREAD,	0	
5265	7041		CIA	
5266	3331		DCA LNKPTR	/-BLOCK NUMBER

		/ PAGE STARTING ADDRESSES	
5267	1112		TAD C200
5270	2331		ISZ LNKPTR
5271	5267		JMP .-2
5272	3304		DCA FROM
5273	1303		TAD BUF
5274	3377		DCA TO
		/READ OR WRITE?	/INDEX
5275	1145		TAD P7600
5276	3331		DCA LNKPTR
5277	1332		TAD SNUM
5300	7650		SNA CLA
5301	5366		JMP WRITE
5302	5355		JMP READ
5303	5400	BUF,	5400
5304	0000	FROM,	0
		/	/INDEX
		*5305	
5305	0000	SWRITE,	0
5306	3332		DCA SNUM
5307	1727		TAD I BLKPTR
5310	4264		JMS SREAD
5311	1311		TAD .
5312	3332		DCA SNUM
5313	5705		JMP I SWRITE
		/	/SET TO WRITE
		*5335	
5335	0001	BLKTBS,	1
5336	0002		2
5337	0003		3
5340	0004		4
5341	0005		5
5342	0006		6
5343	0007		7
5344	0010		10
5345	0011		11
5346	0012		12
5347	0013		13
5350	0014		14
5351	0015		15
5352	0016		16
5353	0017		17
5354	0000		0
		/	
		*5355	
5355	6211	READ,	CDF+10
5356	1704		TAD I FROM
5357	2304		ISZ FROM
5360	6201		CDF



5361	3777
5362	2377
5363	2331
5364	5355
5365	5664

/  
WRITE,

5366	1777
5367	2377
5370	6211
5371	3704
5372	2304
5373	6201
5374	2331
5375	5366
5376	5664
5377	0000

TO,

/

BLKPTR	5327
BLKTAB	5330
BLKTBS	5335
BUF	5303
BUFTOP	5333
CDSVRV	6200
C200	0112
ERR1	0077
FROM	5304
LNKPTR	5331
M1	0133
P12	0153
P1740	5334
P3	0151
P37	0142
P7400	0156
P7600	0145
READ	5355
SADR	0023
SDECOD	5200
SERROR	5261
SNUM	5332
SREAD	5264
SVRTL	5221
SWRITE	5305
TO	5377
VADR	0022
WRITE	5366

DCA I TO  
ISZ TO  
ISZ LNKPTR  
JMP READ  
JMP I SREAD

TAD I TO  
ISZ TO  
CDF+10  
DCA I FROM  
ISZ FROM  
CDF  
ISZ LNKPTR  
JMP WRITE  
JMP I SREAD  
0

/INDEX